

Please replace the paragraph beginning at page 4, line 8, with the following
rewritten paragraph:

B3

Brief Description of the Drawings

Please replace the paragraph beginning at page 5, line 15, with the following
rewritten paragraph:

B4

Description of the Preferred Embodiments

IN THE CLAIMS:

Please amend claims 5 and 6 as follows:

5. (Amended) An encoder as set forth in Claim 4, wherein said light receiving portions are a group of light receiving portions consisting of a plurality of light receiving portions disposed on the same radius at the same phase, and the total sum of the opening areas of light receiving portions of the same phase and the total sum of light receiving portions of the other phase are set to be equal to each other.

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6. (Amended) An encoder as set forth in Claim 5, wherein said groups of light
receiving portions are disposed in a plurality on the same radius.